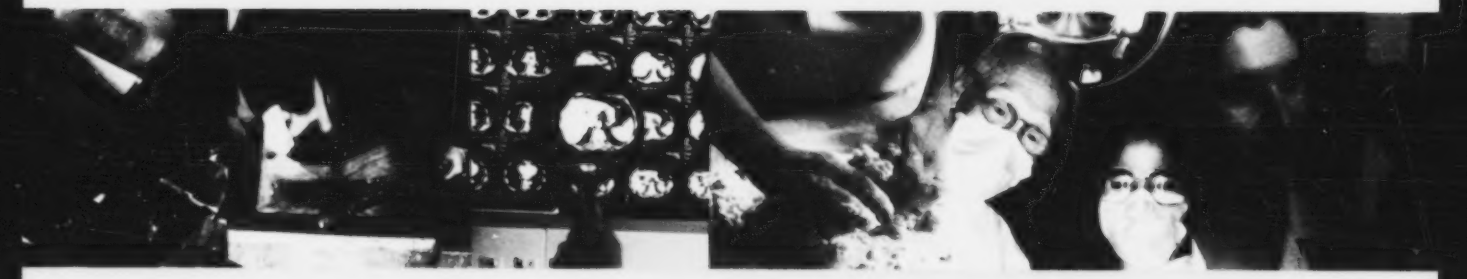
National Edition

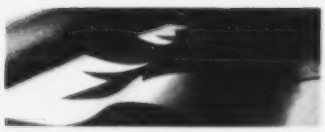
# Job Futures

## WORLD OF WORK



KNOWLEDGE MATTERS

SKILLS AND LEARNING FOR CANADIANS



CANADA'S INNOVATION STRATEGY

Government of Canada Gouvernement du Canada

Canada

SP-538-03-02E

# Job Futures

WORLD OF WORK

Knowledge Matters:
Skills and learning hold
the key to better jobs

Check out

jobfutures.ca

# Acknowledgements

The producers of *Job Futures* would first like to thank all of their COPS (Canadian Occupational Projection System) partners who provided the information for their respective province/territory for the section "Job opportunities vary across Canada". The COPS partners include representatives from each provincial department of education or labour, each Human Resources Development Canada (HRDC) regional office, and from the Applied Research Branch of HRDC national headquarters. Secondly, they would like to thank all of the private and public sector experts from professional, trade and business associations, unions, sector councils and educational groups who reviewed profiles related to occupational groups within their area of expertise and provided valuable comments. Every effort was made to incorporate these comments, as this feedback provides validation and enrichment to the analysis undertaken by the Applied Research Branch, HRDC. However, these organizations cannot be held responsible for the information contained herein or for any errors that *Job Futures* may contain.

# Contact Information

General enquiries about *Job Futures* can be sent through our website: www.jobfutures.ca, or by contacting:

Mailing Address:

*Job Futures*
Applied Research Branch
Human Resources Development Canada
7th Floor, 165 Hôtel-de-Ville
Hull, Quebec
K1A 0J2

Fax: 819-953-8584
E-Mail: jobfutures@hrdc-drhc.gc.ca

ISBN 0-662-31892-7
CAT: RH64-15/2002E

103-02827/

Minister
of Human Resources
Development

Ministre
du Développement
des ressources humaines

Ottawa, Canada K1A 0J9

## MESSAGE FROM THE MINISTER OF HUMAN RESOURCES DEVELOPMENT CANADA

Welcome to *Job Futures: World of Work*, a Canadian guide to the jobs of today and tomorrow for students, parents, job seekers, teachers, and career and education counsellors.

Making career, education and training choices has never been easy. This is especially true in today's job market. It not only demands that we invest in education when we are young, but that we continue to invest in ourselves to keep pace with changing working conditions. In today's job market, knowledge brings personal success.

The Government of Canada is strongly committed to providing young Canadians with practical career information, to supporting all Canadians in their career and education choices, and to offering the best labour market information through such endeavours as *Job Futures*.

*Job Futures* profiles current and future labour market conditions in Canada by occupation and field of study. It provides helpful information on topics such as global labour market trends, the cost/benefits to education, and emerging labour and skill shortages that can lead to new employment opportunities. The *Job Futures* Web site has also been revamped to address your labour market information needs in a more accessible, user-friendly format. You can even take a quiz to help you determine what careers best suit your interests!

On February 12, 2002 the Government of Canada launched Canada's Innovation Strategy. Presented in two papers, the strategy outlines the factors that will drive economic growth and social development over the next decade. The Human Resources Development Canada paper, *Knowledge Matters: Skills and Learning for Canadians*, calls for a collaborative approach between all sectors of society to ensure Canadians have the tools they need to participate in Canada's workplace. The paper outlines a series of national goals and milestones for children and youth, post-secondary education, the adult labour force, and immigration. One of those goals is to ensure our children and youth get the best possible start in life.

We want our young Canadians to be equipped with the skills to take advantage of the opportunities offered in the new economy.

I am confident that you will find *Job Futures* an indispensable career-planning resource.

Jane Stewart

Canada

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# Choosing a job can be hard work

It's not easy to choose the job that's right for you. The world of work is changing rapidly. Whether you are a graduating student, someone looking for work or someone who wants a new career, you need up-to-date information to find the job that suits you.

## GET ALL THE INFORMATION YOU CAN

Start by talking. Talk to a counsellor, a teacher, a friend or relative about jobs in Canada today. They may be able to help you more than you think.

Then explore the information sources at your school or library or on the Internet. Get all the information that will help you choose your job.

***Job Futures*** will set you off in the right direction and show you where to find the information you need. It will show you where the jobs are now and where they'll be in the future. You'll be able to see your chances of getting different jobs, how much they will pay and the training or education you need.

## VISIT *JOB FUTURES* ON THE NET

At www.jobfutures.ca, you will find information about 226 occupational groups and 155 fields of study.

Get the latest information on:

>> The most promising jobs now and in the future;

>> Your career options;

>> Where the jobs are across Canada;

>> What you can expect to earn; and

>> The experience of recent graduates.

# *Job Futures*: A Canadian guide for tomorrow's most promising jobs

***Job Futures*** is a website that provides you with information on the most promising jobs, now and in the future. It helps you make decisions about education, skills and career planning.

***Job Futures*** gives you the latest information on the changing world of work.

***Job Futures*** helps you explore job options and shows you what education and skills you will need to get them.

***Job Futures*** includes:

>> Overviews of the latest labour market and economic trends;

>> New industries, the jobs they offer and the skills needed to get them;

>> How education and skill development affect earnings;

>> A list of jobs and skills in shortage across Canada; and

>> Information on current and future labour market conditions for 226 occupational groups and 155 fields of study.

***Job Futures*** has been developed by Human Resources Development Canada specialists in consultation with over 125 educational and professional organizations, sector councils, and federal/provincial/territorial governments across Canada.

## WHO CAN USE *JOB FUTURES*

***Job Futures*** is useful for all Canadians interested in the current and future labour market and the links between education/skills and the world of work. They include:

>> Students making educational and career decisions;

>> Workers thinking about upgrading their skills or a career change;

>> Unemployed persons exploring job prospects and training opportunities;

>> People re-entering the job market;

>> Career/education professionals advising clients on career choices or the prospects of finding work;

>> Teachers informing students on career and education planning; and

>> Parents helping their children plan for the future.

# jobfutures.ca

# Over the next five years, almost a 1,000,000 new jobs will likely be created

## THERE WILL BE JOB OPPORTUNITIES IN ALL MAJOR OCCUPATIONAL GROUPS

Job growth will be the fastest in Health, in Natural and Applied Sciences, and in Social Science, Education, Government Service and Religion:

>> Population ageing and expected increases in public spending will stimulate employment in the health group;

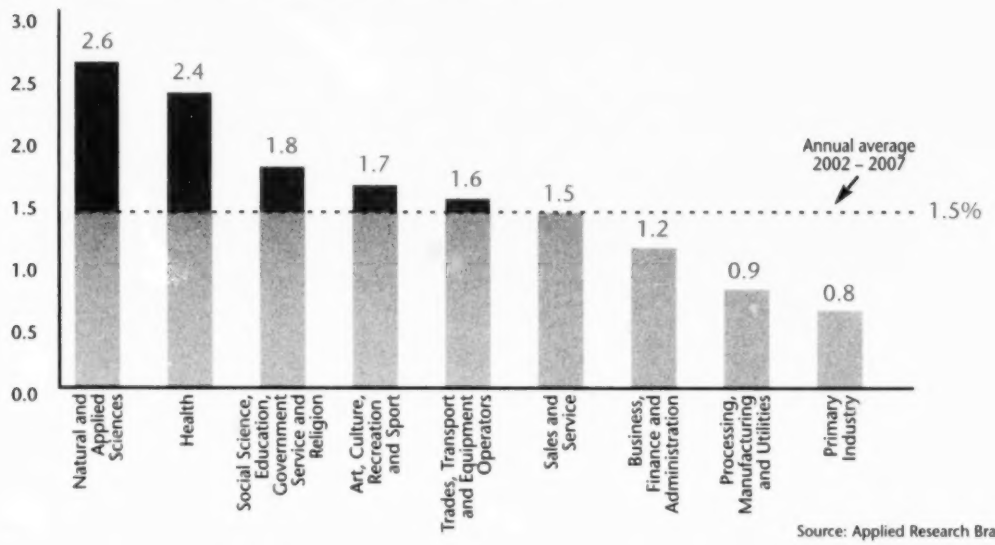
>> The move towards a knowledge-based economy is creating jobs in the sciences; and

>> To acquire and maintain the skills needed for most jobs now and in the future, the need for college and university education/training will be greater, thus increasing job opportunities in the education sector.

On the other hand, job growth is expected to be slow in Processing, Manufacturing and Utilities, due to the loss of market share in the auto industry and the slowdown in the high-technology industry. Job growth will be the slowest in Primary Industry because of resource constraints and the increasing difficulty for resource-based industries in accessing foreign markets.

>> ABOUT 70% OF ALL NEW JOBS CREATED OVER THE NEXT FIVE YEARS ARE EXPECTED TO REQUIRE SOME FORM OF POST-SECONDARY EDUCATION/TRAINING <<

JOB GROWTH BY BROAD OCCUPATIONAL GROUPING (%)




Source: Applied Research Branch, HRDC.

# Retirements will account for an additional million job openings over the next five years

## RETIREMENTS WILL LEAD TO JOB OPPORTUNITIES IN ALL MAJOR OCCUPATIONAL GROUPS

In addition to new job openings as a result of increased economic activity, retirements will also create job opportunities.

Sales and Service, and Business, Finance and Administration will account for more than 45% of all retirements over the next five years.

Some groups with fewer workers will also be significantly affected by retirements as workers in these groups are generally older or tend to retire earlier (e.g. Social Science, Primary Industry, Health).

>> OCCUPATIONS REQUIRING A HIGHER LEVEL OF EDUCATION/ TRAINING WILL ACCOUNT FOR TWO THIRDS OF JOB OPPORTUNITIES ARISING FROM RETIREMENTS <<

## Retirements over the next five years

| OCCUPATIONAL GROUP | NUMBER OF RETIREES | PROPORTION OF RETIREES (%) | RATE OF RETIREMENT (%) |
|---|---|---|---|
| Sales and Service | 270,000 | 25 | 1.4 |
| Business, Finance and Administration | 225,000 | 21 | 1.6 |
| Trades, Transport and Equipment Operators | 148,000 | 14 | 1.3 |
| Social Science, Education, Government Service and Religion | 130,000 | 12 | 2.6 |
| Health | 73,000 | 7 | 1.7 |
| Processing, Manufacturing and Utilities | 72,000 | 7 | 1.1 |
| Natural and Applied Sciences | 70,000 | 7 | 1.4 |
| Primary Industry | 45,000 | 4 | 1.8 |
| Art, Culture, Recreation and Sport | 33,000 | 3 | 1.7 |
| TOTAL | 1,066,000 | 100 | 1.5 |

Source: Applied Research Branch, HRDC.

# Tomorrow's most promising jobs

There's a strong link between education and training and your chances of finding the job you want. More and more, your chances of finding the job that interests you will depend on the education and training choices you make today.

Check out the occupations and fields of study listed below. These represent some of the areas of work and study that offer the most promising job opportunities. Jobs considered to be the most promising are those where the chances of finding work are relatively strong, the chances of employment loss are relatively weak and earnings are relatively high.

## Most promising occupations

HEALTH Professional occupations such as physicians, dentists, pharmacists, registered nurses | Medical technologists and technicians | Dental hygienists and therapists | Ambulance attendants | Elemental medical and hospital assistants | INFORMATION TECHNOLOGIES Computer systems analysts and engineers | EDUCATION University professors | College and other vocational instructors | Administrators in education and training | ENGINEERING AND SCIENCE Physical science professionals | Engineers | Electronic service technicians (household and business equipment) | BUSINESS Human resources professionals | Business service professionals | MANAGEMENT Managers in public administration | Construction managers | Financial and human resources managers | Managers in health care and social services | Sales, marketing and advertising managers | Information systems and data processing managers | Sales and service supervisors | Supervisors in manufacturing and processing | Supervisors in mining, oil and gas | Contractors and supervisors, trades and related workers | OTHER OCCUPATIONS Judges, lawyers and Quebec notaries | Psychologists | Paralegal and related occupations | Police officers and firefighters | Technical sales specialists in wholesale trade | Aircraft mechanics and inspectors |

## Most promising fields of study

MASTER'S Commerce – Business administration | Specialized administration | Basic medical sciences | Medical and surgical specialties | Health | Nursing | Chemistry | Computer science | Geology | Physics | Psychology | Engineering | UNDERGRADUATE Specialized administration | Architecture | Medicine (MD) | Health | Dentistry | Nursing | Pharmacy | Forestry | Veterinary sciences and medicine | Chemistry | Computer science | Geology | Physics | Law | Engineering | COMMUNITY COLLEGE/CEGEP Marketing | Retail sales | Dental hygiene and assistant technologies | Medical laboratory technologies | Nursing | Radiography, radiation therapy and nuclear medicine technologies | Computer science | Protection and correction services | TRADE/VOCATIONAL Nursing aide and orderly | Computer science |

# New industries offer new opportunities

If you are looking for a job you should look at what is happening in these fast-growth industries before making your choice. There are jobs in these industries for people with a wide range of education and training. Look at the following examples:

## ENVIRONMENT

UNIVERSITY

- biophysicist
- agrologist
- specialist in geomatics
- hydrogeologist

COLLEGE/TECHNICAL

- air quality specialist
- environmental technologist
- pollution prevention officer
- environmental inspector

HIGH SCHOOL OR LESS

- landfill equipment operator
- silviculture and forestry worker
- aquaculture and marine harvest labourer

## BIOTECHNOLOGY

UNIVERSITY

- biologist: cellular, molecular, plant, animal
- biochemist
- biophysicist

COLLEGE/TECHNICAL

- chemical technician and technologist
- biological technician and technologist
- water supply manager

## AEROSPACE

UNIVERSITY

- aeronautics specialist
- aerospace engineer
- electrical engineer
- sales and marketing specialist

COLLEGE/TECHNICAL

- mechanic
- aircraft inspector
- machinist
- tool and die maker
- industrial design technologist

HIGH SCHOOL OR LESS

- assembler
- machining tool operator
- aircraft electronic assembler

## MULTIMEDIA

UNIVERSITY/COLLEGE/TECHNICAL

- multimedia producer
- project manager
- computer graphics designer
- 2D and 3D animation designer

HIGH SCHOOL OR LESS

- product tester
- library/ information clerk

# Job opportunities vary across Canada

***Job opportunities exist in every part of Canada. The most promising ones are listed below. Maybe you need information at the national level. Or perhaps you want information that applies to your province or territory. Simply check out the appropriate website.***

## YUKON

- Accountants & Auditors
- Community & Social Service Workers
- Contractors & Supervisors, Trades
- Elementary & Secondary School Teachers
- Finance & Insurance Clerks
- Food Service & Accommodation Managers
- Policy & Program Professionals
- Registered Nurses
- Retail Trade Managers
- Secretaries

www.workfutures.yk.ca

## BRITISH COLUMBIA

- Assisting Occupations in Graphic & Digital Arts, and Technical Occupations in Motion Pictures, Television & Theatre
- Chefs & Cooks
- Computer Systems Analysts & Programmers
- Graphic Designers & Illustrating Artists, and Artisans & Craftpersons
- Managers in Accommodation, Food & Retail Trade
- Professional Engineers
- Registered Nurses
- Social Workers and Community & Social Service Workers
- Technical Sales Specialists & Representatives, Wholesale

www.workfutures.bc.ca
www.workfutures.bc.ca/EN/acc/doc/hoo_et.html

## ALBERTA

- Assisting Occupations in Support of Health Services
- Auditors, Accountants & Investment Professionals
- Carpenters & Cabinetmakers
- Computer & Information Systems Professionals
- Electrical Trades & Telecommunications Occupations
- Nursing Supervisors & Registered Nurses
- Pharmacists, Dietitians & Nutritionists
- Plumbers, Pipefitters & Gasfitters
- Retail Salespersons & Sales Clerks
- Technical Occupations in Civil, Mechanical & Industrial Engineering

www.ab.hrdc-drhc.gc.ca/lmi/home_e.shtml
www.alis.gov.ab.ca/main.asp

## SASKATCHEWAN

- Auditors, Accountants & Investment Professionals
- Machining, Metalworking & Woodworking Machine Operators
- Machinists & Related Occupations
- Motor Vehicle & Transit Drivers
- Nurse Supervisors & Registered Nurses
- Pharmacists, Dietitians & Nutritionists
- Physicians, Dentists & Veterinarians
- Sales & Service Supervisors
- Systems Analysts & Computer Programmers
- Therapy & Assessment Professionals

www.sk.hrdc-drhc.gc.ca/jobfutures

## NATIONAL

- Aircraft Mechanics
- Computer Systems Analysts & Engineers
- Health Care Professionals (Doctors, Dentists, Chiropractors, Optometrists, Nurses)
- Human Resources & Business Service Professionals
- Medical Technologists & Technicians
- Paralegal & Related Occupations
- Physical Science Professionals
- Police Officers & Firefighters
- Sales, Marketing & Advertising Managers
- University & College Professors

www.jobfutures.ca

## MANITOBA

- Accountants
- Aircraft Engine Mechanics
- CNC Machinists & Machine Tool Operators
- Customer Service/Information Clerks
- Doctors/Physicians
- Industrial Engineering Technologists & Technicians (with Quality Control experience)
- Information Systems Project Managers
- Motor Vehicle Mechanics
- Pharmacists
- Registered Nurses

www.mb.hrdc-drhc.gc.ca/menu/lmi.shtml
www.edu.gov.mb.ca/tce/carjob/occ_car_info/occ_car_info.html

## PRINCE EDWARD ISLAND

- Aircraft Mechanics & Inspectors
- Computer Systems Analysts & Computer Programmers
- Customer Service, Information & Related Clerks
- Food & Beverage Servers
- Hairstylists & Barbers
- Long Haul Truck Drivers
- Motor Vehicle Mechanics, Technicians & Mechanical Repairers
- Registered Nurses
- Retail Salespersons & Sales Clerks
- School Teachers

www.pei.jobfutures.org/en/frames/home.html

## ONTARIO

- Chefs
- Chemical Engineers
- Computer Systems Analysts
- Construction Skilled Trades
- Electronic Service Technicians (Household & Business Equipment)
- Machinists
- Mechanical Engineers
- Registered Nurses
- Secondary & Elementary School Teachers
- Tool & Die Makers

www.ontariojobfutures.net

## NEWFOUNDLAND

- Civil Engineers
- Computer Programmers
- Deck Officers, Water Transport
- Financial Auditors & Accountants
- General Practitioners & Family Physicians
- Pharmacists
- Registered Nurses
- Respiratory Therapists
- School & Guidance Counsellors
- Veterinarians

www.nf.hrdc-drhc.gc.ca/lmi/index.htm
www.gov.nf.ca

## NOVA SCOTIA

- Computer Programmers
- Computer Systems Analysts
- General Practitioners & Family Physicians
- Managers in Engineering, Architecture, Science & Information Systems
- Nurse Supervisors & Registered Nurses
- Pharmacists
- Professional Occupations in Business Services to Managers
- Psychologists
- Retail Salespersons & Sales Clerks
- Secondary & Elementary School Teachers

www.ns.hrdc-drhc.gc.ca/english/index.htm
www.ednet.ns.ca

## NEW BRUNSWICK

- Carpenters
- Community & Social Service Workers
- Computer Programmers
- Computer Systems Analysts
- General Practitioners
- Occupations in Business Services to Management
- Plumbers
- Registered Nurses
- Specialist Physicians
- University Professors

www.nb.hrdc-drhc.gc.ca/common/lmi/jobf/nofrmj.shtml

## QUEBEC

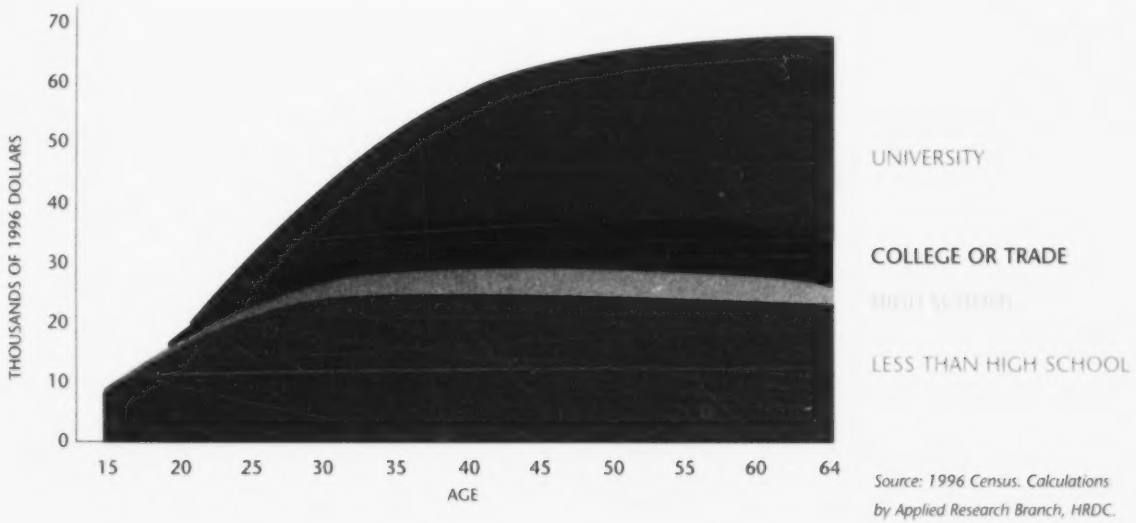
- Computer Systems Analysts & Programmers
- Customer Service, Information & Related Clerks
- Engineers, notably Electric & Electronic, Computer & Aerospace
- Human Resources & Business Service Professionals
- Instructors & Teachers of Persons with Disabilities
- Landscaping & Grounds Maintenance Contractors & Managers
- Registered Nurses
- Technical Occupations in Electronics & Electrical Engineering
- Technical Sales Specialists, Wholesale Trade
- Translators, Terminologists & Interpreters

www.qc.hrdc-drhc.gc.ca/job-futures
www.emploiquebec.net/indexang.htm

# More education can mean better jobs and pay

Should you continue your education after high school? That depends on your interests, your skills, your talents and the sort of job you want.

HOW EDUCATION AFFECTS LIFETIME EARNINGS




*Source: 1996 Census. Calculations by Applied Research Branch, HRDC.*

As you can see, people with education beyond high school usually start at higher earnings and continue to earn more throughout their working life.

## THE COST OF EDUCATION PAYS OFF

Studies show that even when you take into account the cost of post-secondary education and the earnings you forego while getting that education, you still come out ahead in the long run. This is generally true for all jobs.

## YOUR CHANCES OF FINDING A JOB GENERALLY INCREASE WITH A HIGHER LEVEL OF EDUCATION/TRAINING

On average, 6% of workers are unemployed. But in occupations that most often require a university degree the rate is 2.9%; those that require a college or trade diploma, 5.2%. For jobs requiring less than high school the rate climbs to 10.9%.

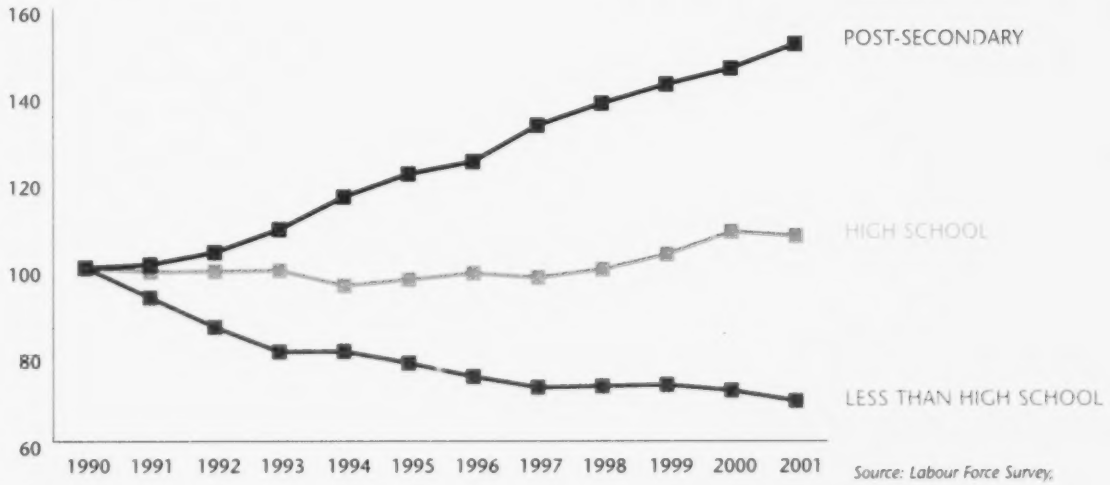
## THINK CAREFULLY BEFORE YOU CHOOSE

Education is only one thing to consider. What is the future of the job you are interested in? Do you have the skills and talents for the job you would like? What does it pay? Are employers hiring for that job? Will there always be a need for it?

# Education and skills are the key to getting work

Most of the new job openings in the 1990s were concentrated in sectors requiring more education and skills, such as in health, natural and applied sciences, social science, and business and finance.

EMPLOYMENT GROWTH BY LEVEL OF EDUCATION
(INDEX 1990 = 100)




*Source: Labour Force Survey, Statistics Canada.*

## MOST OF THE NEW JOB OPENINGS NOW REQUIRE POST-SECONDARY EDUCATION

By 2007, about 70% of all new job openings will require some form of post-secondary education. Over the next 5 years, the most promising jobs will require a university or college education.

## EVEN THE MORE "TRADITIONAL" OCCUPATIONS NOW REQUIRE HIGHER SKILLS

Not only do Canadian workers need to have the right education level, they also need to upgrade their skills over the course of their working lives.

Truck drivers now need to know how to use global positioning systems (GPS), crane operators work with sophisticated onboard computers, and individual investors conduct stock market transactions from their home computers.

# Tables

The following two tables present a summary of labour market indicators and outlooks for each of the 226 occupations and 155 fields of study described in *Job Futures*.

The first table (p. 17), *Labour Market Indicators and Outlooks by OCCUPATION*, groups the occupations into nine major work sectors for ease of reference. Occupations are listed numerically by NOC (National Occupational Classification) code.

The second table (p. 22), *Labour Market Indicators and Outlooks by FIELD OF STUDY*, groups the fields of study into four levels of education. Fields of study are listed alphabetically within each level for easy reference. The coding structure used is the FOSC (Field of Study Classification), which is also found in *Job Futures*.

CANADA'S INNOVATION STRATEGY

# Labour market indicators and outlooks by Occupation

| NOC | OCCUPATIONS | AVERAGE HOURLY WAGE ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | **All Occupations** | **16.91** | **4.8** | **FAIR** |
| | 1 – BUSINESS, FINANCE AND ADMINISTRATION | 18.66 | 3.4 | FAIR |
| 0111 | Financial Managers | 28.41 | 2.3 | Good |
| 0112 | Human Resource Managers | 29.89 | 2.9 | Good |
| 0121 | Insurance, Real Estate and Financial Brokerage Managers | 28.39 | 1.5 | Good |
| 0122 | Banking, Credit and Investment Managers | 26.80 | 2.0 | Fair |
| 013 | Managers in Communication (Except Broadcasting) | 28.09 | 1.4 | Fair |
| 1111 | Financial Auditors and Accountants | 22.62 | 2.3 | Fair |
| 1112 | Financial and Investment Analysts | 24.51 | 1.9 | Fair |
| 1113 | Securities Agents, Investment Dealers and Brokers | 24.90 | 4.4 | Fair |
| 1121 | Specialists in Human Resources | 24.68 | 1.6 | Good |
| 1122 | Occupations in Professional Business Services to Management | 26.22 | 3.3 | Good |
| 121 | Clerical Supervisors | 18.38 | 1.8 | Fair |
| 1221 | Administrative Officers | 17.24 | 3.0 | Fair |
| 1222 | Executive Assistants | 18.60 | 2.9 | Fair |
| 1224 | Property Administrators | 16.87 | 3.8 | Limited |
| 1225 | Purchasing Agents and Officers | 20.15 | 2.6 | Fair |
| 123 | Finance and Insurance Administrative Occupations | 16.59 | 2.1 | Fair |
| 1231 | Bookkeepers | 14.12 | 2.6 | Fair |
| 1232 | Loan Officers | 17.89 | 1.6 | Fair |
| 124 | Secretaries, Recorders and Transcriptionists | 14.72 | 3.6 | Limited |
| 141 | Clerical Occupations, General Office Skills | 12.99 | 5.1 | Limited |
| 142 | Office Equipment Operators | 14.46 | 6.2 | Limited |
| 1431 | Accounting and Related Clerks | 14.84 | 3.6 | Fair |
| 1432 | Payroll Clerks | 16.75 | 3.0 | Fair |
| 1433 | Customer Service Representatives – Financial Services | 13.11 | 2.3 | Fair |
| 1434 | Banking, Insurance and Other Financial Clerks | 14.75 | 2.9 | Fair |
| 144 | Administrative Support Clerks | 15.69 | 3.4 | Fair |
| 145 | Library, Correspondence and Related Information Clerks | 13.60 | 5.4 | Fair |
| 1453 | Customer Service, Information and Related Clerks | 14.01 | 3.6 | Fair |
| 146 | Mail and Message Distribution Occupations | 14.52 | 4.2 | Limited |
| 1463 | Couriers, Messengers and Door-To-Door Distributors | 11.30 | 5.5 | Limited |
| 147 | Recording, Scheduling and Distributing Occupations | 14.21 | 5.4 | Fair |
| 1471 | Shippers and Receivers | 13.33 | 6.0 | Fair |
| | 2 – NATURAL AND APPLIED SCIENCES | 23.64 | 3.4 | GOOD |
| 0210 | Engineering, Science and Architecture Managers | 32.10 | 3.3 | Fair |
| 0213 | Computer and Information Systems Managers | 31.34 | 2.4 | Good |
| 211 | Physical Science Professionals | 26.68 | 2.2 | Good |
| 212 | Life Science Professionals | 24.41 | 2.5 | Fair |
| 213 | Civil, Mechanical, Electrical and Chemical Engineers | 29.05 | 2.9 | Good |
| 2131 | Civil Engineers | 27.94 | 2.5 | Good |
| 2132 | Mechanical Engineers | 28.10 | 3.1 | Good |
| 2133 | Electrical and Electronics Engineers | 30.92 | 2.9 | Good |
| 214 | Other Engineers | 29.69 | 2.6 | Good |
| 2147 | Computer Engineers | 31.41 | 2.3 | Good |
| 215 | Architects, Urban Planners and Land Surveyors | 24.02 | 3.1 | Fair |
| 216 | Mathematicians, Systems Analysts and Computer Programmers | 24.97 | 3.4 | Good |
| 2162 | Computer Systems Analysts | 25.46 | 3.1 | Good |
| 2163 | Computer Programmers | 23.50 | 4.1 | Fair |
| 221 | Technical Occupations in Physical Sciences | 20.43 | 3.3 | Fair |
| 2211 | Chemical Technologists and Technicians | 20.09 | 2.6 | Fair |
| 222 | Technical Occupations in Life Sciences | 19.42 | 7.3 | Limited |
| 223 | Technical Occupations in Civil, Mechanical and Industrial Engineering | 21.82 | 3.1 | Fair |
| 224 | Technical Occupations in Electronics and Electrical Engineering | 20.06 | 3.7 | Good |
| 2241 | Electrical and Electronics Engineering Technologists and Technicians | 22.05 | 3.2 | Fair |
| 2242 | Electronic Service Technicians (Household and Business Equipment) | 18.59 | 4.2 | Good |
| 225 | Technical Occupations in Architecture, Drafting, Surveying and Mapping | 20.17 | 4.0 | Fair |
| 2253 | Drafting Technologists and Technicians | 19.88 | 3.9 | Fair |
| 226 | Other Technical Inspectors and Regulatory Officers | 23.97 | 2.9 | Fair |
| 227 | Transportation Officers and Controllers | 26.78 | 3.5 | Fair |
| 2271 | Air Pilots, Flight Engineers and Flying Instructors | 28.43 | 3.9 | Fair |

# Labour market indicators and outlooks by Occupation

| NOC | OCCUPATIONS | AVERAGE HOURLY WAGE ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | 3 – HEALTH | 23.09 | 1.3 | GOOD |
| 0311 | Managers in Health Care | 27.02 | 1.5 | Good |
| 3111 | Specialist Physicians | 22.22 | 0.3 | Good |
| 3112 | General Practitioners and Family Physicians | 22.96 | 0.6 | Good |
| 3113 | Dentists | 30.38 | 0.4 | Good |
| 312 | Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals | 16.86 | 0.3 | Good |
| 313 | Pharmacists, Dietitians and Nutritionists | 26.64 | 0.7 | Good |
| 3131 | Pharmacists | 27.84 | 0.5 | Good |
| 314 | Therapy and Assessment Professionals | 23.95 | 1.1 | Fair |
| 3142 | Physiotherapists | 24.30 | 0.9 | Fair |
| 3143 | Occupational Therapists | 23.95 | 0.9 | Fair |
| 315 | Nursing Supervisors and Registered Nurses | 23.07 | 0.8 | Good |
| 321 | Medical Technologists and Technicians (Except Dental) | 19.96 | 1.5 | Good |
| 3211 | Medical Laboratory Technologists and Pathologists' Assistants | 22.34 | 0.6 | Good |
| 3212 | Medical Laboratory Technicians | 18.57 | 2.3 | Fair |
| 3215 | Medical Radiation Technologists | 22.20 | 0.9 | Good |
| 322 | Technical Occupations in Dental Health Care | 23.28 | 1.7 | Good |
| 3222 | Dental Hygienists and Therapists | 26.18 | 1.5 | Good |
| 323 | Other Technical Occupations in Health Care (Except Dental) | 17.28 | 1.1 | Good |
| 3233 | Licensed Practical Nurses | 17.18 | 1.0 | Good |
| 3234 | Ambulance Attendants and Other Paramedical Occupations | 18.73 | 1.6 | Good |
| 341 | Assisting Occupations in Support of Health Services | 13.67 | 2.4 | Fair |
| 3413 | Nurse Aides, Orderlies and Patient Service Associates | 13.60 | 2.2 | Fair |
| 6631 | Elemental Medical and Hospital Assistants | 13.86 | 1.1 | Good |
| | 4 – SOCIAL SCIENCE, EDUCATION, GOVERNMENT SERVICE AND RELIGION | 23.83 | 2.8 | FAIR |
| 0312 | Administrators – Post-Secondary Education and Vocational Training | 26.74 | 0.5 | Good |
| 0313 | School Principals and Administrators of Elementary/Secondary Education | 30.42 | 0.8 | Good |
| 0314 | Managers in Social, Community and Correctional Services | 22.52 | 1.9 | Good |
| 041 | Managers in Public Administration | 31.19 | 0.7 | Good |
| 411 | Judges, Lawyers and Québec Notaries | 29.75 | 1.3 | Good |
| 412 | University Professors and Assistants | 22.97 | 4.5 | Good |
| 4121 | University Professors | 28.77 | 2.3 | Good |
| 4131 | College and Other Vocational Instructors | 25.00 | 4.3 | Good |
| 4141 | Secondary School Teachers | 25.93 | 2.1 | Fair |
| 4142 | Elementary School and Kindergarten Teachers | 24.43 | 1.8 | Fair |
| 4143 | Educational Counsellors | 25.32 | 3.0 | Fair |
| 4151 | Psychologists | 27.12 | 0.5 | Good |
| 4152 | Social Workers | 22.32 | 2.4 | Fair |
| 4153 | Family, Marriage and Other Related Counsellors | 19.33 | 3.2 | Fair |
| 416 | Policy and Program Officers, Researchers and Consultants | 23.72 | 3.0 | Fair |
| 4160 | Health and Social Policy Researchers, Consultants and Program Officers | 24.00 | 2.9 | Fair |
| 4163 | Business Development Officers and Marketing Researchers and Consultants | 24.76 | 3.8 | Fair |
| 421 | Paralegals, Social Services Workers and Occupations in Education and Religion | 17.32 | 3.4 | Fair |
| 4211 | Paralegal and Related Occupations | 18.85 | 1.9 | Good |
| 4212 | Community and Social Service Workers | 15.84 | 3.3 | Fair |
| 4213 | Employment Counsellors | 18.73 | 4.7 | Fair |
| 4215 | Instructors and Teachers of Persons with Disabilities | 20.13 | 3.8 | Fair |
| 6470 | Early Childhood Educators and Assistants | 11.33 | 3.9 | Fair |
| 6472 | Elementary and Secondary School Teacher Assistants | 13.78 | 6.2 | Limited |

# Labour market indicators and outlooks by Occupation

| NOC | OCCUPATIONS | AVERAGE HOURLY WAGE ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | 5 – ART, CULTURE, RECREATION AND SPORT | 18.63 | 5.2 | FAIR |
| 051 | Managers in Art, Culture, Recreation and Sport | 23.56 | 1.9 | Fair |
| 511 | Librarians, Archivists, Conservators and Curators | 19.93 | 2.5 | Fair |
| 5111 | Librarians | 20.15 | 2.3 | Fair |
| 512 | Writing, Translating and Public Relations Professionals | 21.35 | 3.4 | Fair |
| 5121 | Authors and Writers | 21.18 | 2.6 | Fair |
| 5122 | Editors | 23.45 | 3.3 | Fair |
| 5124 | Professional Occupations in Public Relations and Communications | 20.88 | 3.7 | Fair |
| 5125 | Translators, Terminologists and Interpreters | 20.15 | 5.9 | Fair |
| 513 | Creative and Performing Artists | 19.46 | 4.0 | Fair |
| 521 | Technical Occupations in Libraries, Archives, Museums and Art Galleries | 15.30 | 6.8 | Limited |
| 522 | Photographers, Graphics Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts | 16.78 | 7.8 | Fair |
| 5221 | Photographers | 16.34 | 4.1 | Fair |
| 523 | Announcers and Other Performers | 15.60 | 9.1 | Limited |
| 524 | Creative Designers and Craftspersons | 16.77 | 4.0 | Fair |
| 5241 | Graphic Designers and Illustrators | 17.68 | 4.1 | Fair |
| 5242 | Interior Designers | 19.12 | 2.9 | Fair |
| 525 | Athletes, Coaches, Referees and Related Occupations | 11.18 | 8.8 | Limited |
| 5254 | Program Leaders and Instructors in Recreation and Sport | 11.12 | 8.4 | Limited |
| | 6 – SALES AND SERVICE | 15.27 | 4.9 | LIMITED |
| 0611 | Sales, Marketing and Advertising Managers | 28.06 | 2.2 | Good |
| 0621 | Retail Trade Managers | 17.81 | 1.7 | Good |
| 063 | Managers in Food Service and Accommodation | 14.55 | 2.8 | Fair |
| 0651 | Managers in Other Services | 20.13 | 1.7 | Fair |
| 621 | Sales and Service Supervisors | 13.25 | 3.0 | Good |
| 6221 | Technical Sales Specialists – Wholesale Trade | 19.38 | 3.5 | Good |
| 6231 | Insurance Agents and Brokers | 17.40 | 1.3 | Fair |
| 6232 | Real Estate Agents and Salespersons | 17.23 | 1.3 | Fair |
| 6233 | Retail and Wholesale Buyers | 16.09 | 2.3 | Fair |
| 6241 | Chefs | 13.19 | 5.6 | Fair |
| 6242 | Cooks | 9.29 | 7.8 | Limited |
| 6251 | Butchers and Meat Cutters – Retail and Wholesale | 11.66 | 4.3 | Limited |
| 6252 | Bakers | 10.45 | 5.6 | Limited |
| 6261 | Police Officers (Except Commissioned) | 24.57 | 0.5 | Good |
| 6262 | Firefighters | 23.15 | 0.8 | Good |
| 627 | Technical Occupations in Personal Service | 10.94 | 1.5 | Fair |
| 6411 | Sales Representatives – Wholesale Trade (Non-Technical) | 17.92 | 3.3 | Fair |
| 6421 | Retail Salespersons and Sales Clerks | 10.22 | 5.6 | Limited |
| 643 | Occupations in Travel and Accommodation | 13.41 | 4.5 | Fair |
| 6431 | Travel Counsellors | 13.41 | 4.4 | Fair |
| 644 | Tour and Recreational Guides and Casino Occupations | 11.37 | 22.9 | Limited |
| 645 | Occupations in Food and Beverage Service | 9.52 | 6.8 | Limited |
| 647 | Child Care and Home Support Workers | 11.65 | 5.0 | Limited |
| 6471 | Visiting Homemakers, Housekeepers and Related Occupations | 10.81 | 4.0 | Limited |
| 648 | Other Occupations in Personal Services | 10.25 | 3.3 | Fair |
| 6611 | Cashiers | 8.41 | 5.3 | Limited |
| 662 | Other Sales and Related Occupations | 8.99 | 8.1 | Limited |
| 664 | Food Counter Attendants, Kitchen Helpers and Related Occupations | 8.45 | 7.7 | Limited |
| 6651 | Security Guards and Related Occupations | 11.61 | 5.0 | Fair |
| 666 | Cleaners | 11.45 | 6.7 | Limited |
| 667 | Other Occupations in Travel, Accommodation, Amusement and Recreation | 11.27 | 10.0 | Limited |
| 668 | Other Elemental Service Occupations | 10.03 | 6.2 | Limited |

# Labour market indicators and outlooks by Occupation

| NOC | OCCUPATIONS | AVERAGE HOURLY WAGE ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | 7 – TRADES, TRANSPORT AND EQUIPMENT OPERATORS | 17.44 | 6.6 | FAIR |
| 071 | Managers in Construction and Transportation | 26.64 | 1.9 | Good |
| 0711 | Construction Managers | 26.76 | 1.8 | Good |
| 072 | Facility Operation and Maintenance Managers | 22.18 | 5.5 | Fair |
| 721 | Contractors and Supervisors, Trades and Related Workers | 22.00 | 2.5 | Good |
| 722 | Supervisors, Railway and Motor Transportation Occupations | 21.63 | 1.7 | Good |
| 7231 | Machinists and Machining and Tooling Inspectors | 18.00 | 3.8 | Fair |
| 7232 | Tool and Die Makers | 20.86 | 2.5 | Fair |
| 724 | Electrical Trades and Telecommunications Occupations | 21.30 | 5.0 | Fair |
| 7241 | Electricians (Except Industrial and Power Systems) | 19.70 | 7.1 | Fair |
| 7242 | Industrial Electricians | 22.98 | 3.7 | Fair |
| 7246 | Telecommunications Installation and Repair Workers | 21.16 | 2.4 | Fair |
| 725 | Plumbers, Pipefitters and Gas Fitters | 20.49 | 6.8 | Fair |
| 726 | Metal Forming, Shaping and Erecting Trades | 20.87 | 11.6 | Limited |
| 7271 | Carpenters | 16.97 | 11.0 | Limited |
| 7272 | Cabinetmakers | 14.53 | 6.4 | Limited |
| 728 | Masonry and Plastering Trades | 19.31 | 10.9 | Fair |
| 729 | Other Construction Trades | 16.31 | 11.0 | Fair |
| 731 | Machinery and Transportation Equipment Mechanics (Except Motor Vehicle) | 20.44 | 3.5 | Fair |
| 7311 | Construction Millwrights and Industrial Mechanics (Except Textile) | 20.93 | 3.9 | Fair |
| 7312 | Heavy-Duty Equipment Mechanics | 19.30 | 3.4 | Fair |
| 7315 | Aircraft Mechanics and Aircraft Inspectors | 21.71 | 0.8 | Good |
| 732 | Automotive Service Technicians | 16.12 | 3.9 | Fair |
| 733 | Other Mechanics | 16.16 | 3.8 | Fair |
| 734 | Upholsterers, Tailors, Shoe Repairers, Jewellers and Related Occupations | 12.26 | 4.9 | Limited |
| 7342 | Tailors, Dressmakers, Furriers and Milliners | 10.70 | 6.0 | Limited |
| 735 | Stationary Engineers and Power Station and System Operators | 21.71 | 2.1 | Fair |
| 736 | Train Crew Operating Occupations | 23.29 | 2.0 | Limited |
| 737 | Crane Operators, Drillers and Blasters | 20.06 | 6.8 | Fair |
| 738 | Printing Press Operators, Commercial Divers and Other Trades | 17.94 | 4.8 | Limited |
| 741 | Motor Vehicle and Transit Drivers | 14.94 | 5.2 | Fair |
| 7411 | Truck Drivers | 15.68 | 5.5 | Fair |
| 7412 | Bus Drivers and Subway and Other Transit Operators | 15.65 | 5.3 | Fair |
| 742 | Heavy Equipment Operators | 17.52 | 11.9 | Fair |
| 743 | Other Transport Equipment Operators and Related Workers | 17.03 | 6.4 | Limited |
| 744 | Other Installers, Repairers and Servicers | 13.83 | 7.4 | Fair |
| 745 | Longshore Workers and Material Handlers | 13.75 | 9.1 | Limited |
| 761 | Trades Helpers and Labourers | 13.93 | 20.4 | Limited |
| 762 | Public Works and Other Labourers | 15.39 | 12.2 | Limited |
| | 8 – PRIMARY INDUSTRY | 17.23 | 9.4 | LIMITED |
| 0811 | Managers in Primary Production (Except Agriculture) | 30.82 | 1.3 | Fair |
| 8211 | Supervisors, Logging and Forestry | 20.94 | 5.5 | Fair |
| 822 | Supervisors, Mining, Oil and Gas | 23.81 | 2.4 | Good |
| 823 | Underground Miners, Oil and Gas Drillers and Related Workers | 21.50 | 6.1 | Fair |
| 8241 | Logging Machinery Operators | 18.05 | 16.7 | Limited |
| 825 | Contractors, Operators and Supervisors in Agriculture, Horticulture and Aquaculture | 14.63 | 1.6 | Limited |
| 826 | Fishing Vessel Masters, Skippers and Fishermen/women | 14.29 | 11.7 | Limited |
| 841 | Mine Service Workers and Operators in Oil and Gas Drilling | 20.18 | 7.6 | Fair |
| 842 | Logging and Forestry Workers | 16.41 | 23.9 | Limited |
| 8431 | General Farm Workers | 10.01 | 10.1 | Limited |
| 8432 | Nursery and Greenhouse Workers | 10.33 | 15.1 | Limited |
| 844 | Other Fishing and Trapping Occupations | 12.74 | 40.5 | Limited |
| 861 | Primary Production Labourers | 12.84 | 22.2 | Limited |

# Labour market indicators and outlooks by Occupation

| NOC | OCCUPATIONS | AVERAGE HOURLY WAGE ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | 9 – PROCESSING, MANUFACTURING AND UTILITIES | 16.06 | 6.9 | FAIR |
| 091 | Managers in Manufacturing and Utilities | 28.27 | 2.2 | Good |
| 921 | Supervisors, Processing Occupations | 20.12 | 2.6 | Good |
| 922 | Supervisors, Assembly and Fabrication | 19.71 | 3.4 | Fair |
| 923 | Central Control and Process Operators in Manufacturing and Processing | 22.55 | 1.9 | Fair |
| 941 | Machine Operators and Related Workers in Metal and Mineral Products Processing | 17.21 | 5.7 | Fair |
| 942 | Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing | 15.11 | 5.2 | Fair |
| 943 | Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing | 17.58 | 5.9 | Fair |
| 944 | Machine Operators and Related Workers in Textile Processing | 11.83 | 8.6 | Limited |
| 945 | Machine Operators and Related Workers in Fabric, Fur and Leather Products Manufacturing | 9.60 | 8.9 | Limited |
| 946 | Machine Operators and Related Workers in Food, Beverage and Tobacco Processing | 13.61 | 10.1 | Limited |
| 947 | Printing Machine Operators and Related Occupations | 13.88 | 6.0 | Limited |
| 948 | Mechanical, Electrical and Electronics Assemblers | 16.73 | 6.5 | Fair |
| 9482 | Motor Vehicle Assemblers, Inspectors and Testers | 20.65 | 6.5 | Limited |
| 9483 | Electronics Assemblers, Fabricators, Inspectors and Testers | 13.05 | 6.4 | Fair |
| 949 | Other Assembly and Related Occupations | 12.97 | 8.6 | Fair |
| 951 | Machining, Metalworking, Woodworking and Related Machine Operators | 15.99 | 6.5 | Fair |
| 9510 | Welders and Soldering Machine Operators | 17.33 | 7.4 | Fair |
| 9511 | Machining Tool Operators | 16.54 | 5.1 | Fair |
| 9514 | Metalworking Machine Operators | 15.21 | 5.7 | Limited |
| 961 | Labourers in Processing, Manufacturing and Utilities | 12.70 | 10.9 | Limited |

Source: Labour Force Survey, Statistics Canada, and Applied Research Branch, HRDC.

# Labour market indicators and outlooks by Field of Study

| CODE | FIELDS OF STUDY | AVERAGE EARNINGS ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | TRADE/VOCATIONAL | | | |
| | TOTAL | 25,800 | 15.4 | FAIR |
| T110 | Accounting | 18,900 | 21.9 | Fair |
| T610 | Agricultural Technologies | 24,400 | 7.2 | Limited |
| T334 | Architectural Design and Drafting Technologies | 19,500 | 1.0 | Fair |
| T312 | Auto Body Repair | 24,200 | 13.0 | Fair |
| T313 | Auto Mechanic | 23,600 | 12.9 | Fair |
| T121 | Business Administration | 24,700 | 15.9 | Fair |
| T350 | Civil Engineering Technologies | 37,300 | 7.0 | Fair |
| T720 | Computer Science | 29,300 | 15.4 | Good |
| T332 | Construction Technologies | 29,000 | 19.0 | Limited |
| T810 | Cooking | 21,300 | 19.9 | Limited |
| T040 | Creative and Design Arts | 16,500 | 20.9 | Limited |
| T531 | Dental Hygiene/Assistant Technologies | 22,800 | 2.0 | Fair |
| T335 | Drafting Technologies | 26,000 | 6.7 | Fair |
| T362 | Electrical/Electronic Engineering Technologies | 28,500 | 15.1 | Fair |
| T811 | Food Preparation – Other | 22,100 | 11.1 | Limited |
| T631 | Food Processing Technologies | 23,100 | 12.7 | Limited |
| T060 | Graphic and Audio-Visual Arts | 23,200 | 26.8 | Fair |
| T314 | Heavy Equipment Mechanic | 32,100 | 13.0 | Fair |
| T383 | Machining | 29,100 | 3.6 | Fair |
| T381 | Manufacturing Engineering Technologies | 29,600 | 15.5 | Fair |
| T315 | Mechanical Engineering Technologies – Other | 34,300 | 12.4 | Fair |
| T561 | Nursing – Other | 28,800 | 7.3 | Good |
| T562 | Nursing Aide/Orderly | 21,400 | 10.4 | Good |
| T070 | Personal Arts | 14,200 | 17.2 | Fair |
| T141 | Retail Sales | 21,400 | 4.2 | Fair |
| T150 | Secretary – Accounting and Bookkeeping (Office admin.) | 23,200 | 25.8 | Limited |
| T151 | Secretary – General (Office admin.) | 20,700 | 25.2 | Limited |
| T152 | Secretary – Legal (Office admin.) | 25,100 | 23.1 | Limited |
| T153 | Secretary – Medical (Office admin.) | 22,800 | 10.0 | Fair |
| T155 | Secretary – Word Processing (Office admin.) | 19,100 | 23.3 | Limited |
| T812 | Service Industries Technologies – Other | 25,000 | 13.0 | Limited |
| T891 | Social Services | 22,100 | 14.7 | Fair |
| T390 | Transportation Engineering Technologies | 27,500 | 8.8 | Limited |
| T333 | Welding | 32,100 | 21.3 | Fair |

| CODE | FIELDS OF STUDY | AVERAGE EARNINGS ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | COMMUNITY COLLEGE/ CEGEP TOTAL | 27,500 | 9.3 | FAIR |
| C110 | Accounting | 25,200 | 5.9 | Fair |
| C610 | Agricultural Technologies | 25,300 | 6.0 | Limited |
| C331 | Architectural and Construction Technologies – Other | 31,100 | 9.4 | Fair |
| C334 | Architectural Design and Drafting Technologies | 28,100 | 11.2 | Fair |
| C121 | Business Administration | 25,800 | 13.2 | Fair |
| C340 | Chemical Engineering Technologies | 29,800 | 7.4 | Fair |
| C350 | Civil Engineering Technologies | 30,500 | 16.4 | Fair |
| C030 | Commercial and Promotional Arts | 26,700 | 7.7 | Fair |
| C720 | Computer Science | 32,900 | 10.6 | Good |
| C040 | Creative and Design Arts | 21,200 | 19.6 | Fair |
| C531 | Dental Hygiene/Assistant Technologies | 26,000 | 1.1 | Good |
| C210 | Education and Counselling | 22,000 | 7.1 | Fair |
| C362 | Electrical/Electronic Engineering Technologies | 30,900 | 5.7 | Fair |
| C370 | Engineering Technologies – Other | 30,400 | 6.2 | Fair |
| C640 | Environmental and Conservation Technologies | 28,200 | 14.6 | Limited |
| C111 | Financial Management – Other | 25,600 | 10.9 | Fair |
| C050 | Fine Arts | 20,700 | 9.7 | Fair |
| C641 | Forestry Technologies | 31,000 | 14.7 | Fair |
| C060 | Graphic and Audio-Visual Arts | 24,500 | 5.2 | Fair |
| C523 | Health Technologies – Other | 26,900 | 13.6 | Fair |
| C380 | Industrial Engineering Technologies | 32,300 | 9.3 | Fair |
| C131 | Institutional Management | 24,000 | 7.7 | Fair |
| C382 | Instrumentation | 36,800 | 10.8 | Fair |
| C140 | Marketing | 29,700 | 5.1 | Good |
| C410 | Mass Communications | 29,700 | 10.1 | Fair |
| C315 | Mechanical Engineering Technologies | 32,200 | 8.3 | Fair |
| C550 | Medical Laboratory Technologies | 24,700 | 20.5 | Good |
| C560 | Nursing – Diploma | 30,900 | 6.0 | Good |
| C561 | Nursing – Other | 28,900 | 6.4 | Good |
| C660 | Primary Technologies – Other | 43,800 | 5.6 | Fair |
| C841 | Protection and Correction Services | 27,300 | 6.1 | Good |
| C580 | Radiography/Radiation Therapy/Nuclear Medicine Technologies | 37,700 | 4.1 | Good |
| C670 | Resource Processing Technologies | 35,700 | 3.8 | Limited |
| C141 | Retail Sales | 20,300 | 8.2 | Good |
| C151 | Secretary – General (Office admin.) | 21,800 | 10.6 | Limited |
| C152 | Secretary – Legal (Office admin.) | 23,300 | 14.3 | Limited |
| C153 | Secretary – Medical (Office admin.) | 23,200 | 7.5 | Fair |
| C812 | Service Industries Technologies | 22,800 | 6.9 | Fair |
| C891 | Social Services | 25,000 | 7.6 | Fair |
| C893 | Sports and Recreation | 21,500 | 11.3 | Fair |
| C351 | Surveying (Geomatics) | 36,600 | 8.2 | Fair |
| C390 | Transportation Engineering Technologies | 35,900 | 12.4 | Fair |

# Labour market indicators and outlooks by Field of Study

| CODE | FIELDS OF STUDY | AVERAGE EARNINGS ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | UNIVERSITY UNDERGRADUATE TOTAL | 33,600 | 9.2 | FAIR |
| U613 | Agriculture – Other | 30,200 | 2.1 | Limited |
| U612 | Animal and Plant Sciences | 33,800 | 6.0 | Fair |
| U010 | Applied Arts | 32,300 | 18.2 | Fair |
| U330 | Architecture | 34,400 | 9.1 | Good |
| U620 | Biology | 27,400 | 16.6 | Fair |
| U340 | Chemical Engineering | 40,400 | 9.5 | Good |
| U710 | Chemistry | 33,600 | 15.0 | Good |
| U350 | Civil Engineering | 37,900 | 5.6 | Good |
| U120 | Commerce – Business Administration | 35,100 | 5.9 | Fair |
| U720 | Computer Science | 40,500 | 4.5 | Good |
| U530 | Dentistry | 70,900 | 4.4 | Good |
| U820 | Economics | 31,600 | 15.9 | Fair |
| U220 | Education – Non-Teaching | 31,500 | 5.6 | Fair |
| U360 | Electrical Engineering | 42,000 | 6.3 | Good |
| U230 | Elementary/Secondary Teacher Training | 33,000 | 6.1 | Fair |
| U370 | Engineering – Other | 39,200 | 4.9 | Good |
| U402 | English | 27,600 | 20.2 | Fair |
| U630 | Food and Household Sciences | 28,700 | 15.7 | Fair |
| U641 | Forestry | 41,500 | 14.3 | Good |
| U403 | French | 29,500 | 15.3 | Fair |
| U830 | Geography | 26,800 | 11.0 | Fair |
| U730 | Geology | 38,100 | 11.5 | Good |
| U523 | Health – Other | 42,000 | 5.6 | Good |
| U420 | History | 31,300 | 9.1 | Fair |
| U840 | Law | 37,400 | 21.2 | Good |
| U404 | Linguistics, Translation and Interpretation | 34,100 | 6.5 | Fair |
| U410 | Mass Communications | 29,500 | 13.3 | Fair |
| U740 | Mathematics | 33,200 | 7.2 | Fair |
| U316 | Mechanical Engineering | 40,300 | 2.0 | Good |
| U520 | Medicine (MD) | 37,600 | 12.7 | Good |
| U051 | Music | 20,900 | 15.0 | Fair |
| U560 | Nursing | 41,400 | 3.4 | Good |
| U570 | Pharmacy | 47,100 | 4.1 | Good |
| U240 | Physical Education | 30,800 | 6.5 | Fair |
| U750 | Physics | 31,600 | 17.4 | Good |
| U850 | Planning and Resource Management | 33,700 | 16.6 | Fair |
| U860 | Political Science | 28,000 | 13.7 | Fair |
| U870 | Psychology | 28,000 | 12.4 | Fair |
| U590 | Rehabilitation Medicine | 39,300 | 5.5 | Fair |
| U450 | Religious and Theological Studies | 32,100 | 9.2 | Fair |
| U890 | Social Work/Welfare | 34,500 | 1.4 | Fair |
| U880 | Sociology | 27,800 | 10.5 | Fair |
| U130 | Specialized Administration | 30,100 | 0.9 | Good |
| U250 | Teaching – Other | 33,900 | 5.4 | Fair |
| U680 | Veterinary Sciences and Medicine | 35,500 | 4.4 | Good |

| CODE | FIELDS OF STUDY | AVERAGE EARNINGS ($) | UNEMPLOYMENT RATE (%) | OUTLOOK TO 2007 |
|---|---|---|---|---|
| | MASTER'S UNIVERSITY TOTAL | 47,200 | 8.2 | GOOD |
| M510 | Basic Medical Sciences | 39,400 | 13.7 | Good |
| M620 | Biology | 34,700 | 13.2 | Fair |
| M340 | Chemical Engineering | 47,900 | 7.3 | Good |
| M710 | Chemistry | 36,100 | 11.3 | Good |
| M350 | Civil Engineering | 42,500 | 2.6 | Good |
| M120 | Commerce – Business Administration | 56,500 | 4.9 | Good |
| M720 | Computer Science | 48,400 | 3.4 | Good |
| M820 | Economics | 42,100 | 13.0 | Fair |
| M220 | Education – Non-Teaching | 52,100 | 2.6 | Fair |
| M360 | Electrical Engineering | 52,200 | 1.1 | Good |
| M230 | Elementary/Secondary Teacher Training | 47,300 | 8.1 | Fair |
| M370 | Engineering – Other | 49,800 | 9.9 | Good |
| M402 | English | 35,600 | 18.6 | Fair |
| M403 | French | 33,600 | 11.9 | Fair |
| M830 | Geography | 33,000 | 8.9 | Fair |
| M730 | Geology | 44,700 | 2.6 | Good |
| M523 | Health – Other | 52,600 | 4.5 | Good |
| M420 | History | 27,900 | 9.9 | Fair |
| M430 | Library and Records Science | 33,200 | 13.1 | Fair |
| M404 | Linguistics, Translation and Interpretation | 35,300 | 8.1 | Fair |
| M740 | Mathematics | 39,900 | 12.0 | Fair |
| M316 | Mechanical Engineering | 44,200 | 8.3 | Good |
| M521 | Medical/Surgical Specialties | 106,100 | 5.5 | Good |
| M560 | Nursing | 50,800 | 5.4 | Good |
| M240 | Physical Education | 39,600 | 1.0 | Fair |
| M750 | Physics | 34,700 | 12.2 | Good |
| M850 | Planning and Resource Management | 42,600 | 22.3 | Fair |
| M860 | Political Science | 33,700 | 4.5 | Fair |
| M870 | Psychology | 35,100 | 15.9 | Good |
| M450 | Religious and Theological Studies | 30,200 | 5.6 | Fair |
| M890 | Social Work/Welfare | 40,400 | 4.1 | Fair |
| M880 | Sociology | 29,700 | 10.8 | Fair |
| M130 | Specialized Administration | 51,800 | 2.5 | Good |
| M250 | Teaching – Other | 53,800 | 1.8 | Fair |

Source: 1997 National Survey of 1995 Graduates, Statistics Canada and Applied Research Branch, HRDC.

# Knowledge Matters:
## Skills and Learning for Canadians

Human Resources Development Canada (HRDC) is committed to equipping you with the skills and tools you need to participate in Canada's workplace of today and tomorrow. *Job Futures* provides you with the practical information you need to prepare yourself for the emerging employment opportunities of the 21st century.

## Visit HRDC's website and check out

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You will find easy-to-use, up-to-date information on:

- What education and skills you need for the job you want;
- Current and future job prospects;
- Future career opportunities;
- Employment trends across Canada;
- What you can expect to earn at different stages of your career; and
- The work experience of recent graduates.

*Job Futures* provides information on 226 occupational groups and 155 fields of study.